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What is claimed is:

1. A power tool comprising:

a linear motor including a movable member driven to move reciprocally, the movable member having a tool connector for connecting work bits to the movable member;  
5 and

10 a maximum reciprocal movement amount setting unit for setting maximum reciprocal movement amount at which the linear motor drives movement of the movable member to a selected one of a plurality of maximum reciprocal movement amounts.

15 2. A power tool as claimed in claim 1, further comprising a maximum reciprocal speed setting unit for setting maximum reciprocal movement speed at which the linear motor drives movement of the movable member to a selected one of a plurality of maximum reciprocal movement speeds.

20 3. A power tool as claimed in claim 2, further comprising a reciprocal movement amount setting unit for setting a reciprocating movement amount at which the linear motor drives movement of the movable member to within a range defined by the maximum reciprocal movement amount set by the maximum reciprocal movement amount setting unit.

25 4. A power tool as claimed in claim, 3 further comprising a power-supply circuit that supplies power to the

linear motor when closed and a trigger switch that opens and closes the power-supply circuit when pulled, the reciprocating movement amount setting unit and the reciprocal speed setting unit including at least one of a 5 digital switch that changes digital output in association with pulling amount that the trigger switch is pulled and a variable resistor that changes resistance in association with pulling amount that the trigger switch is pulled.

10 5. A power tool as claimed in claim 2, further comprising a reciprocal speed setting unit for setting a reciprocal movement speed at which the linear motor drives movement of the movable member to a speed within a range defined by the maximum reciprocal movement speed set by the maximum reciprocal speed setting unit.

15 6. A power tool as claimed in claim 5, further comprising a power-supply circuit that supplies power to the linear motor when closed and a trigger switch that opens and closes the power-supply circuit when pulled, the reciprocal speed setting unit including at least one of a digital 20 switch that changes digital output in association with pulling amount that the trigger switch is pulled and a variable resistor that changes resistance in association with pulling amount that the trigger switch is pulled.

25 7. A power tool as claimed in claim 2, further comprising:

a reciprocal movement amount setting unit for setting a reciprocating movement amount at which the linear motor drives movement of the movable member to within a range defined by the maximum reciprocal movement amount set by the  
5 maximum reciprocal movement amount setting unit; and

a reciprocal speed setting unit for setting a reciprocal movement speed at which the linear motor drives movement of the movable member to a speed within a range defined by the maximum reciprocal movement speed set by the  
10 maximum reciprocal speed setting unit.

8. A power tool as claimed in claim 1, further comprising a reciprocal movement amount setting unit for setting a reciprocating movement amount at which the linear motor drives movement of the movable member to within a range defined by the maximum reciprocal movement amount set by the maximum reciprocal movement amount setting unit.  
15

9. A power tool as claimed in claim 8, further comprising a power-supply circuit that supplies power to the linear motor when closed and a trigger switch that opens and  
20 closes the power-supply circuit when pulled, the reciprocating movement amount setting unit including at least one of a digital switch that changes digital output in association with pulling amount that the trigger switch is pulled and a variable resistor that changes resistance in association with pulling amount that the trigger switch is  
25

pulled.

10. A power tool comprising:

a linear motor including a movable member driven to move reciprocally, the movable member having a tool connector and a position information region, the tool connector being for connecting work bits to the movable member; and

10 a movable member region detector that detects the movable member position information region of the movable member.

11. A power tool as claimed in claim 10, further comprising a control unit that sets, as the initial position of the movable member, position of the movable member at the time the movable member region detector detects the movable member position information region.

12. A power tool as claimed in claim 10, further comprising a control unit that sets a maximum reciprocal movement amount at which the linear motor moves the movable member based on detection of the movable member position information region by the movable member region detector.

13. A power tool as claimed in claim 10, further comprising a reciprocal movement amount setting unit for selectively setting reciprocal movement amount of the movable member.

25 14. A power tool as claimed in claim 10, further

comprising a reciprocal movement speed setting unit for selectively setting reciprocal movement speed of the movable member.

15. A power tool as claimed in claim 14, further  
5 comprising a maximum reciprocal movement speed setting unit for selectively setting a maximum reciprocal movement speed of the movable member.